

map

GG

Sun 11 Nov 2018

Distribution

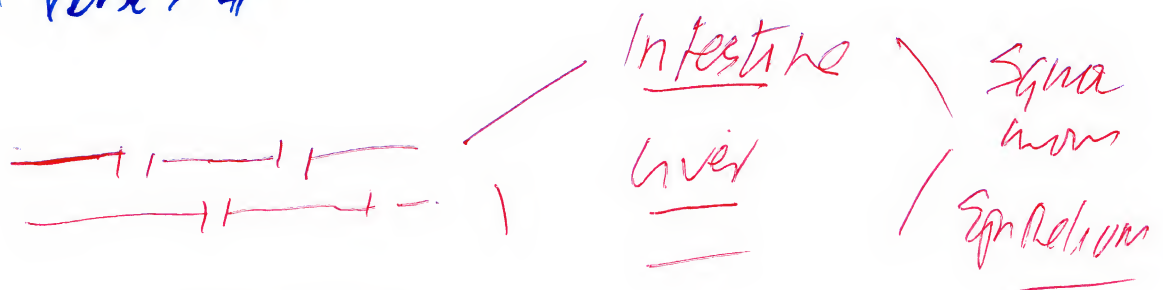
Mr Suren.  
Nmp  
—  
Barrier

membranes, blood vessels, capillaries. MCA?

# Continuous, fenestrated, discontinuous types

of blood vessels #

#



normal

— — — — —

Discontinuous -

- 1: fat 2: muscle 3: nervous system  
4: intestinal villi 5: liver 6: endothelial

bone marrow - kidneys, glomeruli - spleen #

map

FB

M: 5

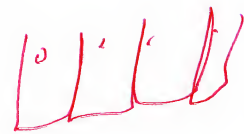
## Brain Barrier

# Paul Ehrlich 1854-1915

A# Astrocytes B# microglia

B# Oligodendrocytes C#  
+ myelin

C# Ependymocytes



tight

junction

## Placental Barrier

FAS-

1.11 Do not A: mixed B: in next > 60-100

# Phos mch, absence of hws MLQ2\*

#

Mr Swan

JS

2018

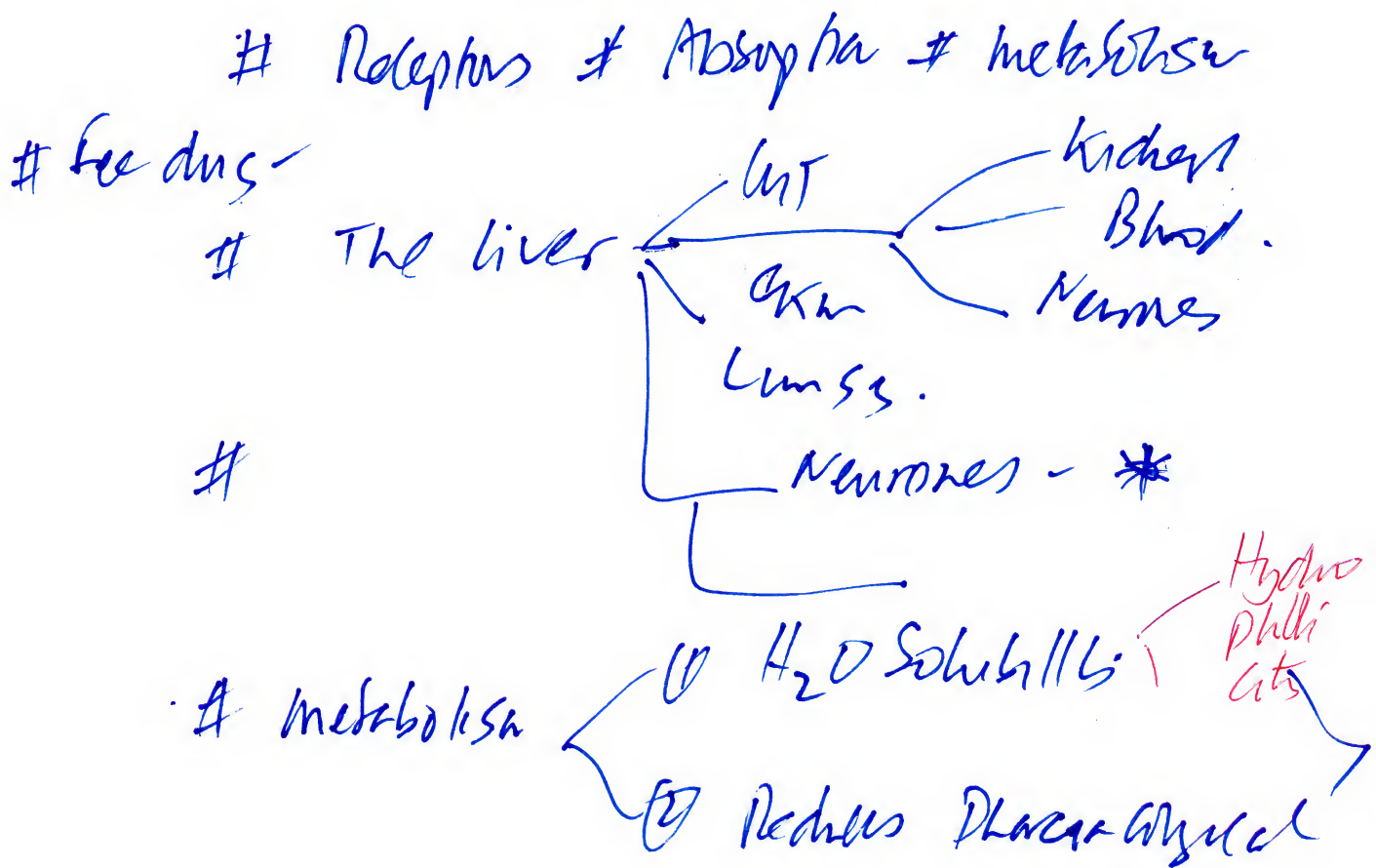
DRUG METABOLISM &

mca \*

mca \*

Nov 11

Excretion



# Lipid vs water solubility #

lipophilic → greater absorption →

↓

Reabsorbed from stomach

↓

excretes when hydrophilic

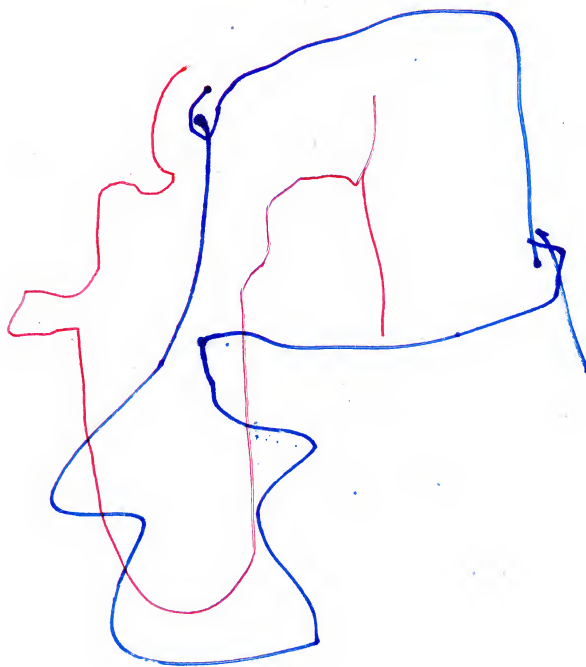
(1)

(2)

NmP  
11mV

DB  
Dms Max E

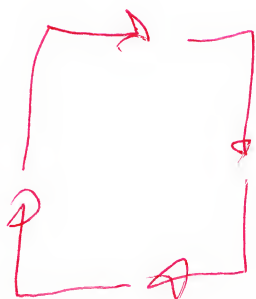
MCS



Dms Reabsorption #

Reabsorption  $\rightarrow$  lipophilic #

Wid Solub



Circulation  
Stage 11



Water  
Soluble  
molecule



mm

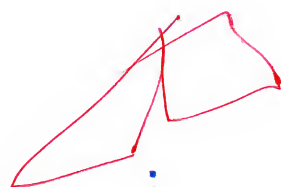
(4)

amp

JB  
Dmg max 2

Mis  
11 Nov 2018

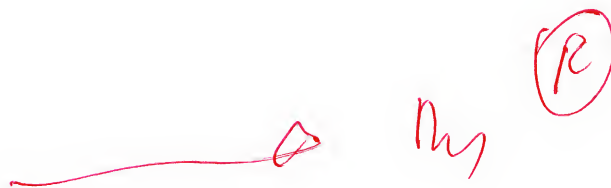
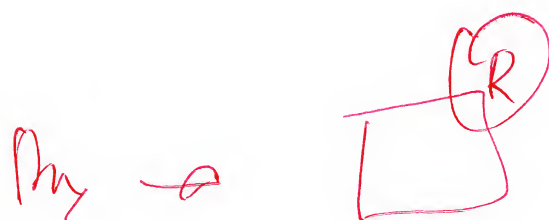
Phase I



Phase II

Frictionless

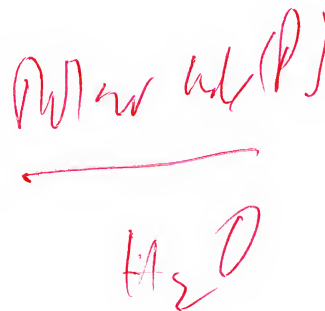
Longitudinal



Chemical Reaction

$\textcircled{R}$

Oxidation



Exhaust



P  $\textcircled{5}$

$\downarrow$   
Exhaust



nmD

96  
Phase 1

1 m.s.  
11 Nov 2018

metabolism.

liver  $\rightarrow$  Cyp 450 - Enzyme Family #

Reduction

Oxidation - Phase 1 \*

hydrolysis  $H_2 + O_2 \rightarrow$

Dmg - H  $\rightarrow$  Dmg OH Reaction.

Cyp 450

Phase II  $\rightarrow$  ex - conjugation  
Reactions

Polar metabolites  $\rightarrow$

Catalysis  $\rightarrow$  transference -

transfer  $\rightarrow$

Phase II lower toxicity lower Pharmacological effect

map

§

Ans  
11/11/2018

# Phase II

Conjugation



H<sub>2</sub>O Glutathione GSH

Glutathione Pool is low \*

Glutathione H<sub>2</sub>O Pool

Drug (R)



Drug

glutathione pool \*

\* Glucose, glutathione, sulphate, alcohol metabolism

Drug Action on metabolism

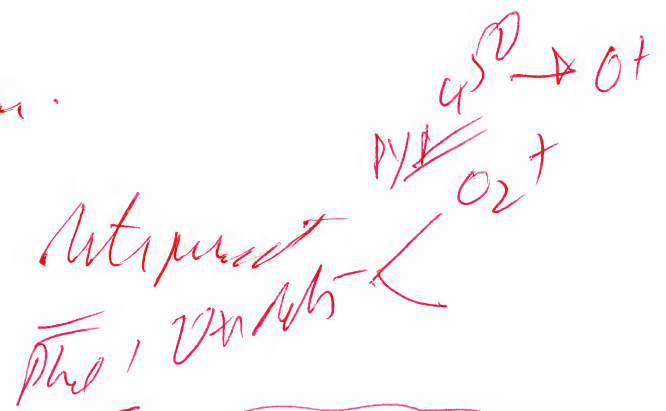
Codeine - morphine - analgesic

Lampricide - Disinfectant

Aspirin

(A) Active

P+



Phase 2 conjugation has two

polars water soluble

ms

Exp-4501 -

11 Aug 2018  
Subshots

CYP1A2 - Phenolphthalein

CYP2C9 - warfarin

CYP2E1 - Omeprazole

CYP2D6 - Codeine

CYP2E1 - ethanol

CYP3A4 - lovastatin

7

pg

7



WMP

JB

11 Nov 2010  
ar 5

Paracetamol  
Nephropathy

→ liver

Ph 1

oxidant

(A)

(B)

liver

Ph 2

liver dysfunction + UAP

Examination

NAL - N-acetyl lysine NAL

(P9)

NMP

GB

Mr S

## Excretion

Nov/11

2018

1 \* Urine < Low molecular weight stuff

2 \* Bile < conjugates < Large m.w. stuff

3 \* Faeces < not absorbed

4 \* Sweat < water soluble →

5 \* Lungs < volatile matter

6 \* Saliva < Linc

7 \* Breast milk

8 \* Hair

P10

mp

Rate of Drug  
Elimination

1/1 hr  
215  
110\*

High Conc



HRE

L Conc



LRE

Rate of Elimination  $\propto$  to amount of drug  
in body.

RE  $\propto$  Drug in Body.  $\swarrow$  Yes Polar  
to non polar



Wt. of drug

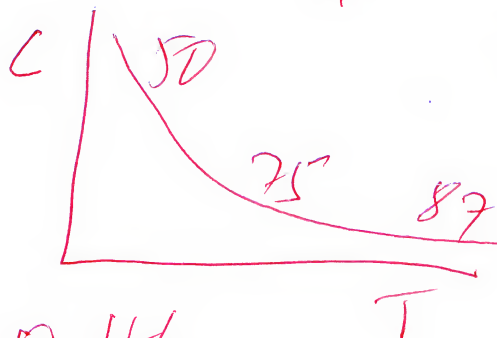
100%  $\propto$

Yes

Applied dose

F0%

0 H/L



To  
low limit  
also

Zero

order

F First order kinetics  
1st

D P(1)

Zero order kinetics

NMD

1

11 Nov 2018  
ms

$$\text{Height} = 0.7 V_d$$

Clearance

$$\frac{T}{2} = \frac{0.7 \times V_d}{\text{clearance}}$$

$$\text{Clearance} = \frac{0.7 \times V_d}{T/2}$$

$$2 \times \text{Clearance} = \frac{0.7 \times V_d}{T}$$

zero  
order

kinetics

$$0.7 = \frac{2 \times \text{clearance} \times T}{N(12) V_d}$$

NO

JB

Ms.  
1 Nov 2019

ABSept -

Elimination -

Excretion

Formula 0.7 constant

to add ↑

$$clearance = \frac{0.7 \times K_d}{t_{1/2}}$$

to add

↓  
clear

two  
different  
median

Zero order — 1st order

NO

variation.

Elimination depends on  
elimination → Rate of  
elimination.

Choose the  
units & eliminate  
method

P 13

to add  
median



LTC

JK

2018

Mr. Mike

## Assessments 2019

- # 1) MR Jan - AEM 3 sets 2 hrs NAD#  
(25?) - Sub House (2)
  - # 2) Feb LTC
  - # 3) Mar LWE
  - # 4) Apr Wk. SM.
  - # 5) May Dissection
- (C) Full a 180s  
(D) A 25 ? 418  
B shut an  
C: Figs  
Blah.

NICE - National Institute of Care #

1# Enabling the patient to have a peaceful death, to die  
in place of choice, informed consent - argument of  
family, care #

2# Gold Standard Gold Standard #

Standard # Quality <

#

# GOLD Standards

(14)

LTC.

26

2018

Gold standard

11/11

11/11/2018

# Amber  
# Liverpool  
# } # Mental Capacity  
# } # Ventilating Deak  
# } #

1: Quality of care

2: Wards / Wards

3: Patient outcomes

No Key Standard - Accreditation Checklist

(5) GP Wards (15) Core in first day

(6) Advanced plans (8) Reduce Hospitalization

P15

LTU

48  
20 Key standards

100%  
100%

20 Sustainability

10 High level intent

19 Spiritual care

9 Dementia care

18 Dementia

8 Dementia care

17 Dignity

7. Spirituality

16 Bereavement

6 Advanced care plans

15 Care in the end

5 Care in the end

14 Relatives

4 Planning meeting

13 End of life care

4 Dementia care

12 Dementia care in the end

11 Dementia care in the end

1 Leadership & Support

10

To include in LTU

DWAP Don't Ask

Vol Verdict & Data policy

7

p 16

7



ITC

SS

Star  
20

Arth  
11/10/2011

## Advance care planning

- # Where ① Preferred place of care
- ② Care's preferred place of care

- # Who ① Name of Spoke person
- Or Lasting Power of Attorney

- # What ① What matters to you
- ② What do you wish to happen
- ③ What do you do not want to happen

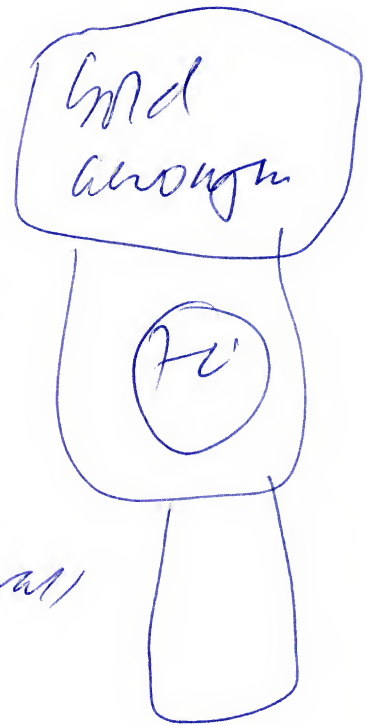
- # How & opportunities in hand conversations

- # Formalized Systematic

#

Other Special instructions - organ donation

Good Standard 7 C's #



20  
4  
7

P17

LTC

Wmum (Pharm Lab) Admin.

JG

1/12/2018

As 1500/year/pt } Preferred Pronties  
Pile of case }

Exclude  
LCP  
Liverpool

# The Amber case Bundle #

sements about 1/2 visit #

65dent  
105dent  
10 Salesne

Home case serve

2: As 1500/year/pt limited visit #

- NSS - draws  
1 up

110

- BP Car

Mark

Spent/Amst-Cont Eln

Consult GP

PM  
2pt

10perm

Ex mch  
→

1 Photo

1 data

1 Inform.

10Sales

P 18

1 letter



LTC.

JB

M. M

11 NOV 2018

What does GSF can do?

1.

GSF

Gold Standard Framework -

\* Dependent on audit

Prepare a draft